



Safety Division

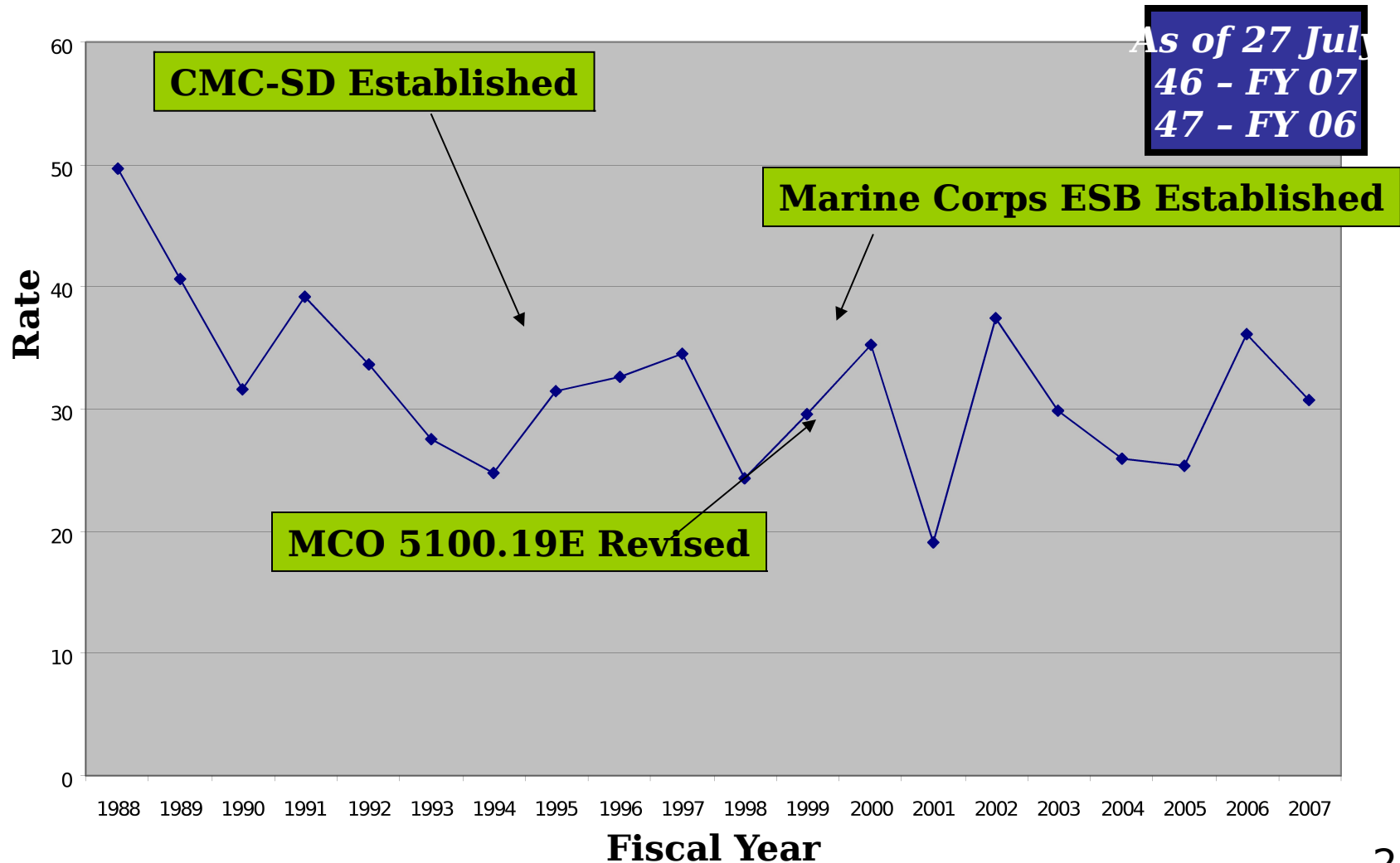
Marine Corps PMV Summit Brief

Brief to SECNAV
30 July 2007



Summary of Marine PMV Fatal Trends FY's 1988-2007

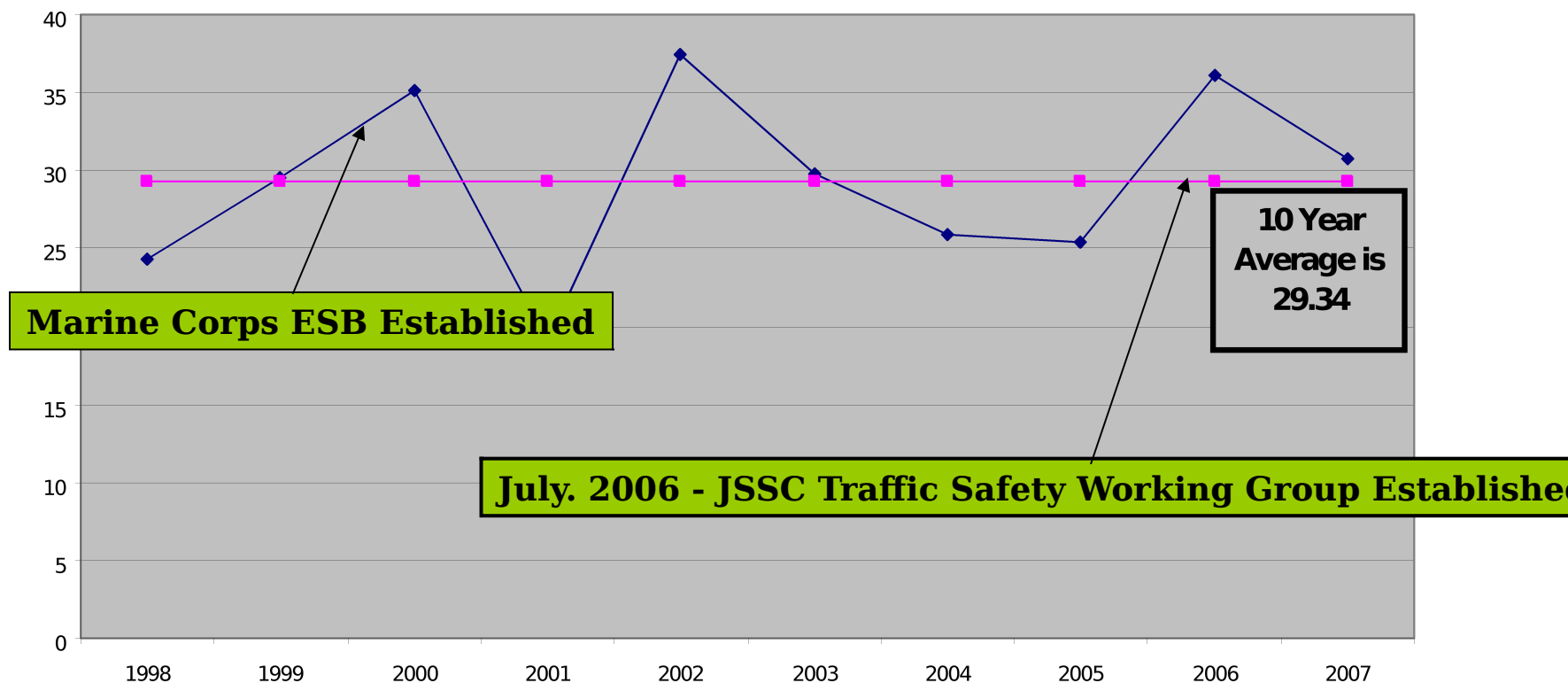
Safety Division





Summary of Marine Corps PMV Fatal Trends FY's 1998-2007

Safety Division



ESB: Executive Safety Board

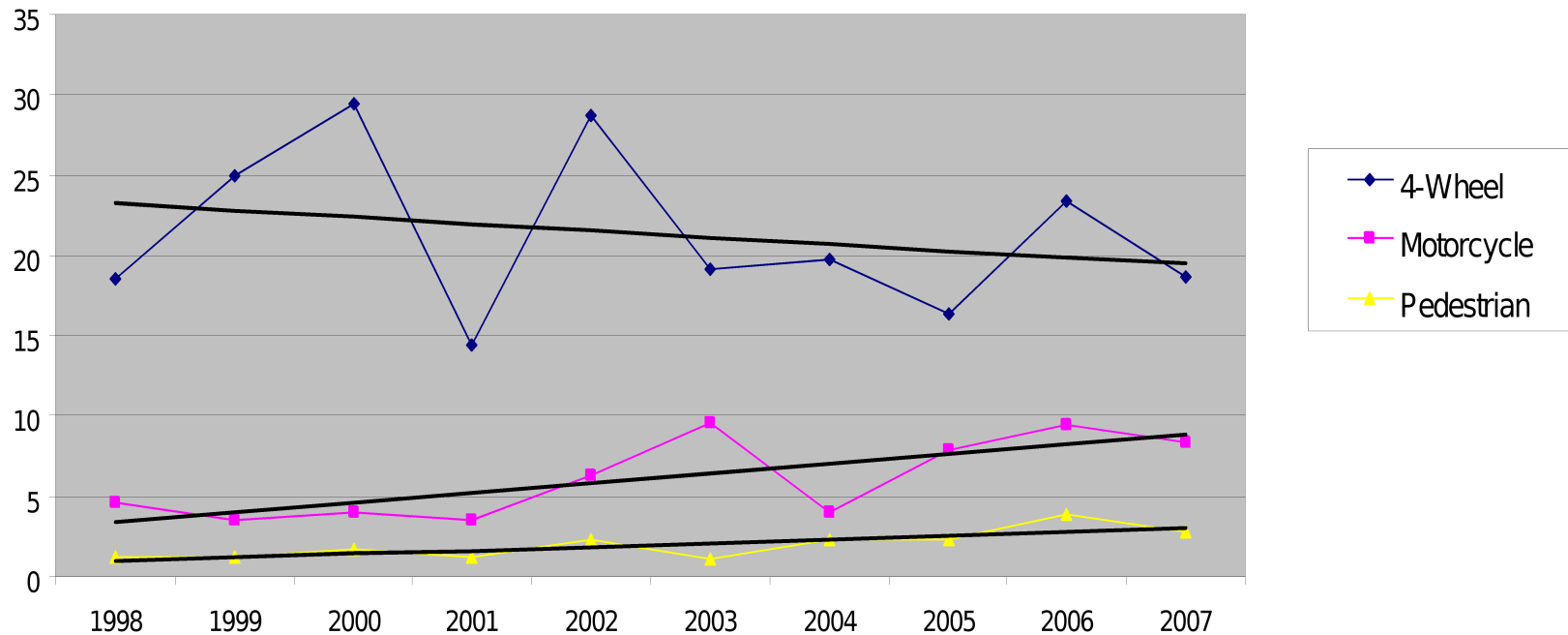
JSSC: Joint Service Safety Conference



Marine Corps PMV Fatality Trends by Type FY's 1998-2007

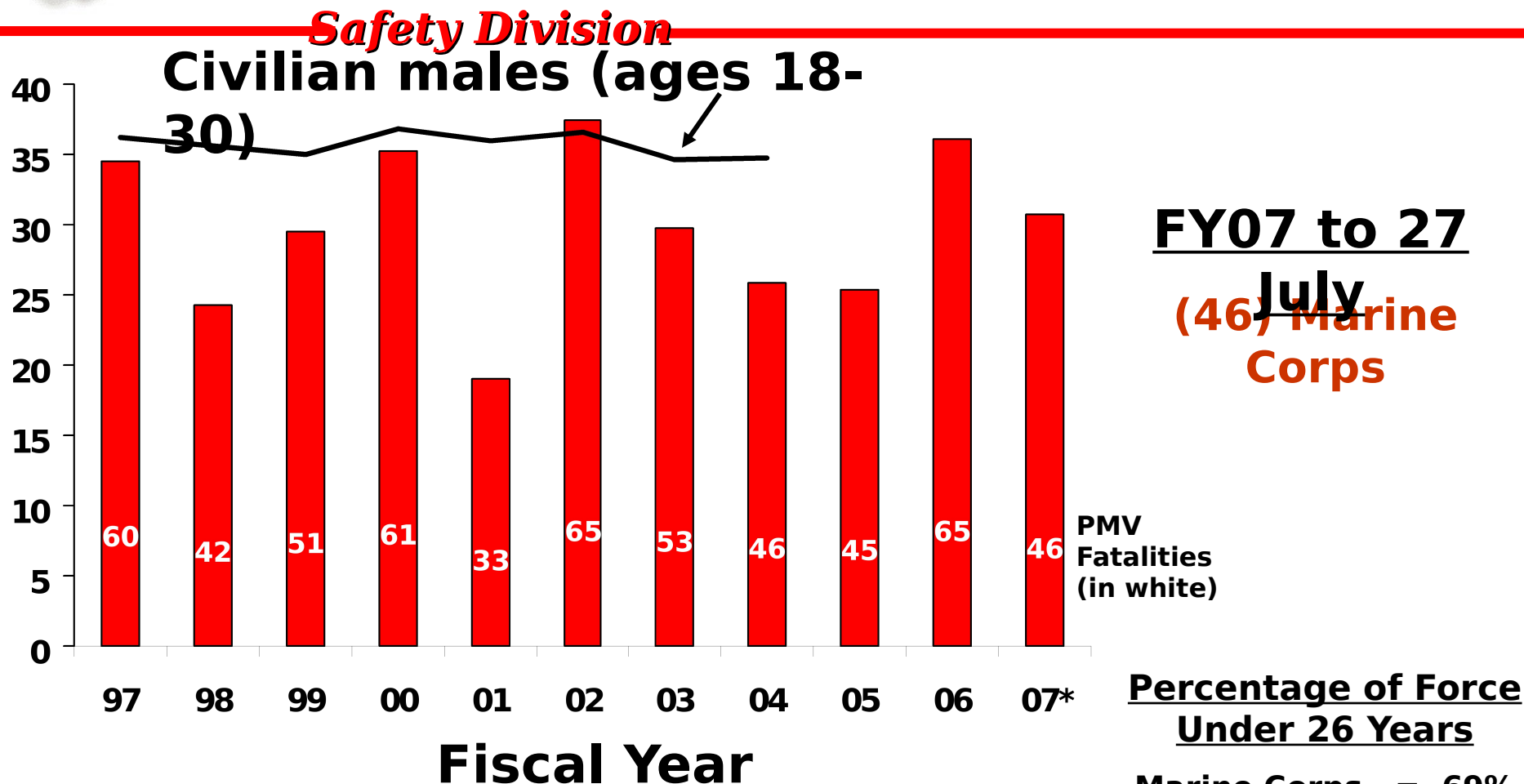
Safety Division

Rates per 100K active duty military personnel per year
with linear regression trendline shown





Marine Corps vs. Civilian PMV Fatality Rates and Fatalities (FY97-07)



Rates per 100K active duty military personnel per year.

*FY07 Reflects a projected end of year rate.



Marine IG Recommendations

Safety Division

1. Require all USMC units to adopt the aviation safety model to professionalize the ground safety force:
USMC position: Review at Sep. ESB
2. Revamp Marine Corps Driver Training Program:
USMC position: TECOM will brief at Sep. ESB
3. Establish Safety Readiness Reporting System
USMC position: Concur
4. Revamp Substance Abuse Program placing training and inspection emphasis on after care and commanders involvement:
USMC position: Concur. Program in place. Emphasis briefed at Sep. ESB and future Commander's Courses



Marine IG Recommendations Cont.

~~*Safety Division*~~

5. Establish requirement for Commander's Legal Course for all prospective O-5/O-6 commands:

USMC position: Course is now available at major installations

6. Extend Drive-Safe initiatives beyond the gate:

USMC position: Concur:

DBAT (DSOC initiative)

DMV driver licensing information Beta test at MCAS Beaufort
MCAS Miramar during Aug. 2007

and

7. Adopt safety as a Marine Corps cultural norm:

USMC position: Concur:

CMC's Way Forward

CMC's Safety Policy Statement

Marine Corps Safety Orders

8. Develop and adopt a "Graduated Licensing" approach for young Marines (18-25):

USMC position: Impractical as recommended. ESB is exploring a variety of leadership, mentoring, and liberty trip plan requirements



What We Are Doing

~~*Safety Division*~~

- Executive Safety Board:
 - Each trimester
- IGMV PMV Safety Performance Study:
 - Implementing IG recommendations
- Identifying High Risk Drivers:
 - Driver licensing information test & DBAT survey
- Accountability:
 - CMC White Letter on seatbelts, Commanders Course
- MCCLL Partnership:
 - Includes safety page for the first time
- CMC Way Forward 2006:
 - Focus on leaders



Way Ahead

~~*Safety Division*~~

- Mishap Reporting Requirements:
 - Working with the Naval Safety Center to identify RMIS requirements
- Leadership Tools:
 - Test and implement leading indicator tools
- Safety Billets:
 - Structure review
- Focused Communications on 18 – 24
Target Audience:
 - Leaders and target audience



Safety Division

Questions



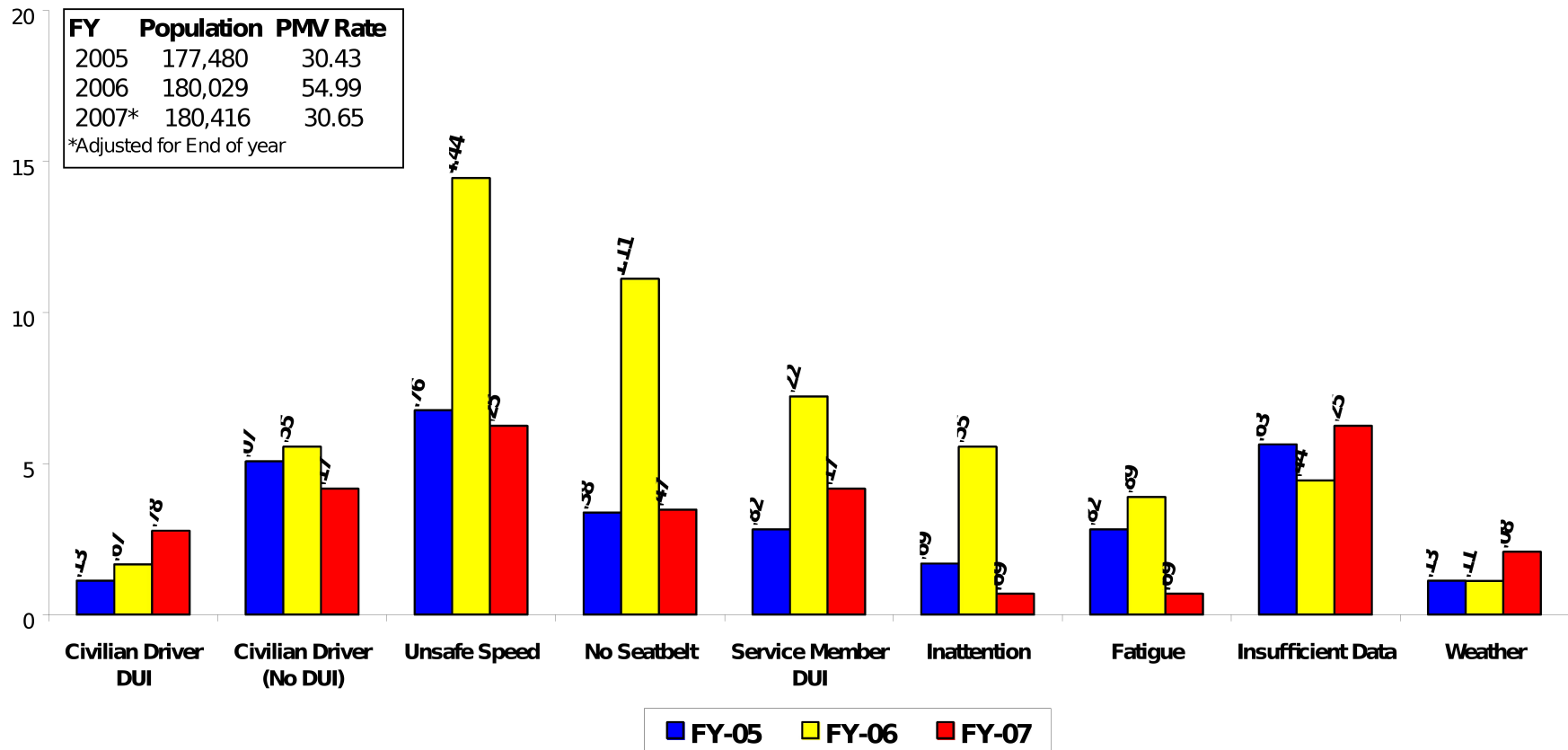
Safety Division

Backups



FY 05-07 USMC PMV FATALITY CAUSAL FACTORS

Safety Division

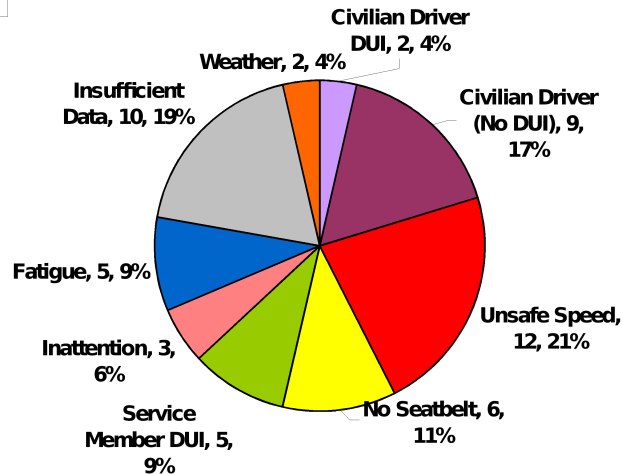




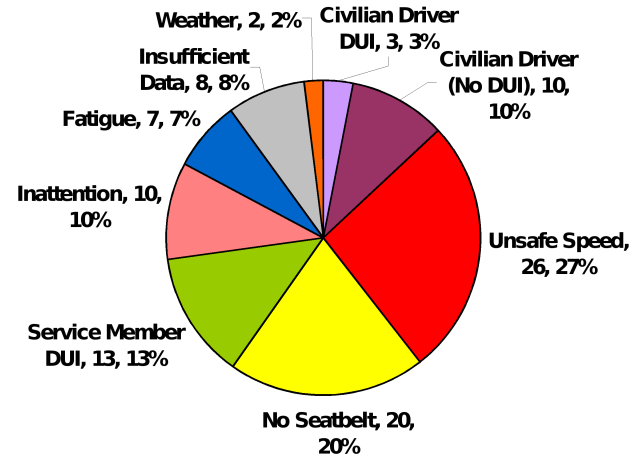
FY 05-07 USMC PMV FATALITY CAUSAL FACTORS

Safety Division

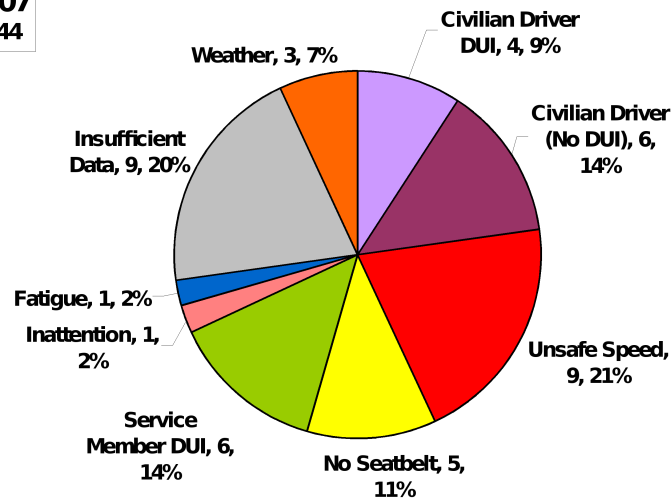
FY05
n=54



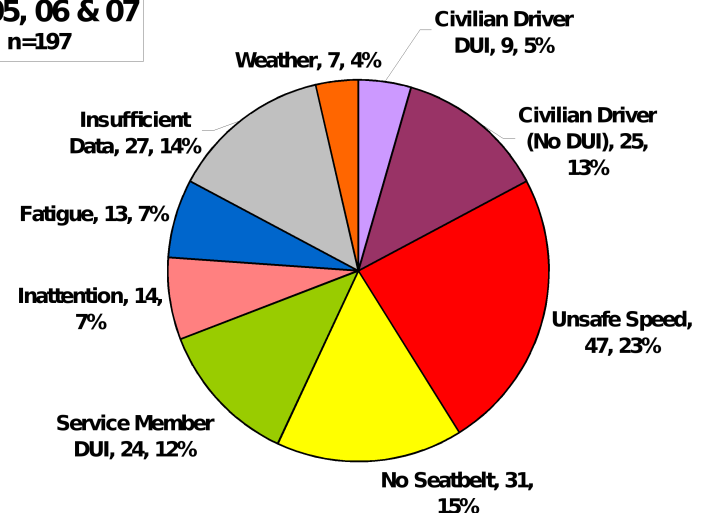
FY06
n=99



FY07
n=44



FY 05, 06 & 07
n=197





FY05 MARINE CORPS OPERATIONAL FATALITY CAUSAL FACTORS

Safety Division

- **Unsafe Act (12)**
 - HMMWV improper maneuver and rolled over with deaths. (6)
 - MTRV improper maneuver; turret gunner killed.
 - PVT killed in Government vehicle crash.
 - Sgt killed when he contacted high voltage wire.
 - LCpl struck and killed by HMMWV. (2)
 - Sgt killed in Government vehicle crash.
- **Failure to follow SOP (4)**
 - SSgt killed attempting to disarm MIG ejection seat.
 - Cpl killed by negligent discharge.
 - PVT drowned during water survival training.
 - LCpl ground guide killed by MTRV.
- **Medical/Physical (4)**
 - PVT found dead during crucible.
 - LtCol died following PT.
 - Recruit died during 2-mile run.
 - PFC died from heat related illness.
- **Unsafe Supervision (0)**
- **Environmental (2)**
 - Cpl was operating a D-7 dozer when the ground beneath gave out causing the dozer to fall into the river. Ground Guide also killed.
- **Unknown (0)**



FY06 MARINE CORPS OPERATIONAL FATALITY CAUSAL FACTORS

Safety Division

- **Unsafe Act (23)**
 - HMMWV improper maneuver and rolled over with deaths. (8)
 - MTRV rollover with deaths. (11)
 - SSgt killed in HMMWV crash.
 - Marines/Corpsman killed in government vehicle crash. (3)
- **Failure to follow SOP (5)**
 - Marines killed by negligent discharge. (2)
 - LCpl and Corpsman killed when ejected from an LAV being towed when it turned on its side.
 - GySgt killed during tree cutting (no head protection).
 - LCpl killed when vehicle he was attempting to jump start rolled over him.
- **Medical/Physical (5)**
 - Corpsman died following PT.
 - PVT died following PT.
 - PFC died when he fell and struck head on rock during PT.
 - PFC died from heart attack following water training.
 - PVT died from heat related illness.
- **Unsafe Supervision (5)**
 - Sgt killed in forklift roll over.
 - 4 Marines drowned when M1A1 tank rolled off bridge.
- **Environmental (1)**
 - Sgt struck by lightning.
- **Unknown (0)**



FY07 MARINE CORPS OPERATIONAL FATALITY CAUSAL FACTORS

Safety Division

- **Unsafe Act (8)**
 - HMMWV rolled over with deaths. (2)
 - 2ndLt fell from roof attempting to improve battle position.
 - Civilian Marine killed when struck by government vehicle.
 - MTRV rollover with death.
 - PFC killed when run over by MTRV while sleeping.
 - Marines killed in government vehicle crash. (2)
- **Failure to follow SOP (4)**
 - Marines killed by negligent discharge. (3)
 - LCpl killed when he contacted high voltage electrical wire.
- **Medical/Physical (0)**
- **Unsafe Supervision (3)**
 - LCpl killed when howitzer being loaded broke cable and fell.
 - 2 LCpls drowned when the boat they were using to cross river capsized.
- **Environmental (0)**
- **Unknown (0)**



Private Motor Vehicle Study Marine IG Report

Safety Division

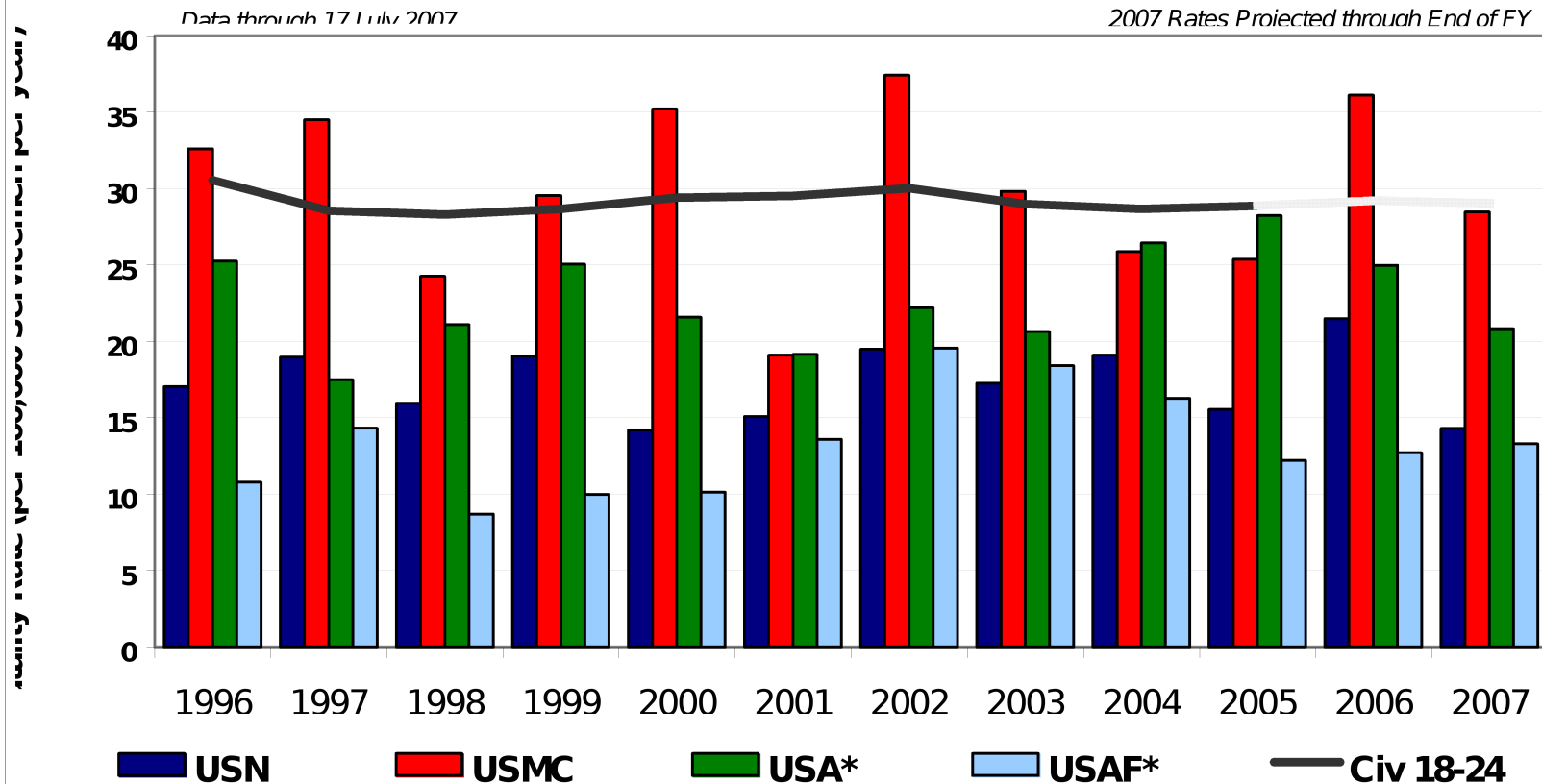
- ***On the battlefield there are none better-on the highway, none are more at risk***
 - Risk taker, adventuresome, aggressive, bold and outspoken are all qualifiers assigned to our young Marines
 - Our recruiting campaigns advertise these notions, our training methodologies promote them, and our success in combat validates the concept



PMV Fatality Rates By Service

Safety Division

PMV Fatality Rates by Service FY1996 - 2007



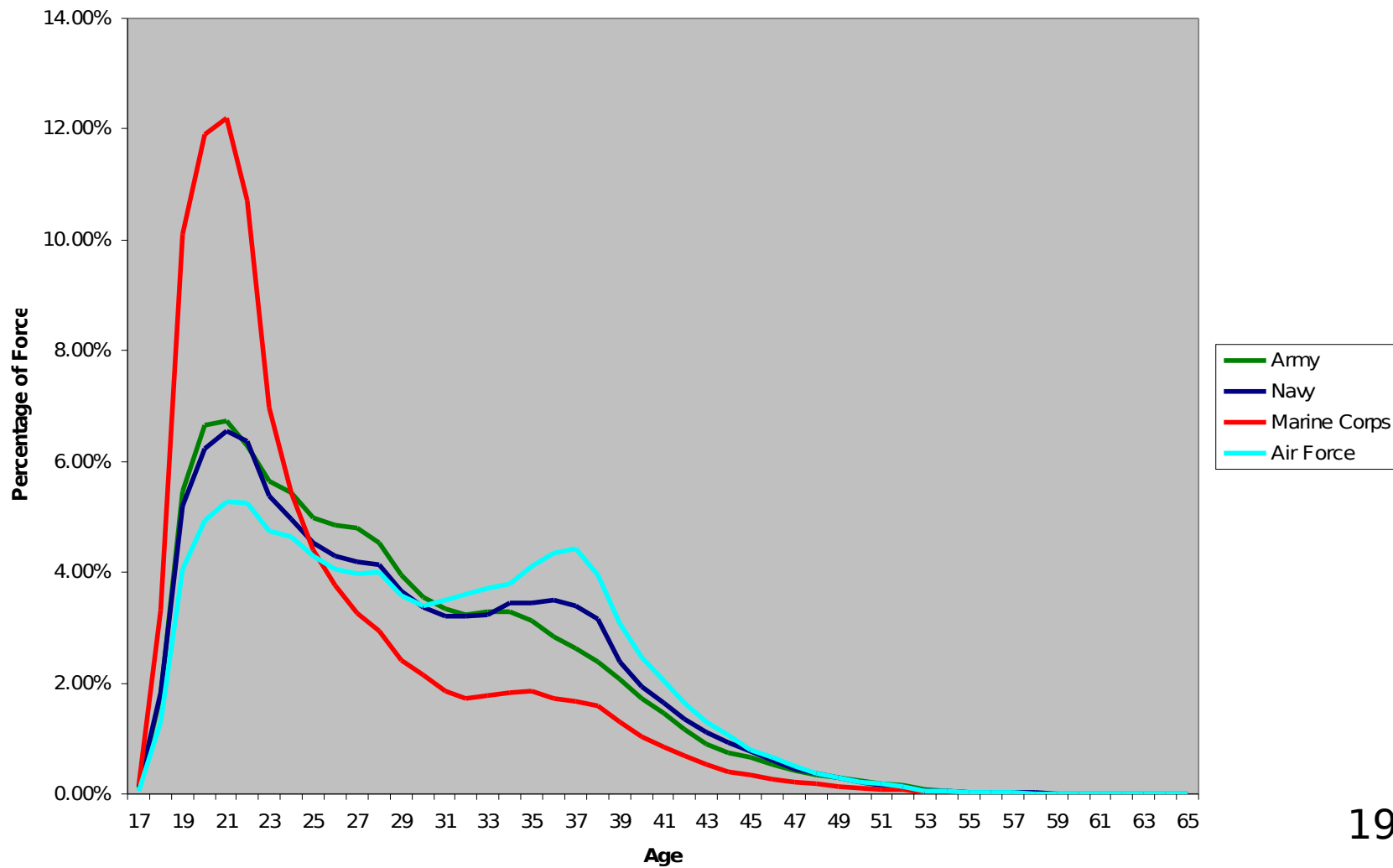
Data Sources: Naval Safety Center; Air Force Safety Center; Army Combat Readiness Center; DODI Statistics; NHTSA

* Rates do not match published numbers. Rates have been adjusted to exclude Reservists in order to permit valid comparison.



Service age comparisons

Safety Division





USMC PMV ROLLING AVERAGE

Safety Division

